

FLASH PYROLYSIS COAL TAR. W.G. Willson, S.A. Qader, E.W. Knell.
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A Wyoming subbituminous coal was subjected to flash pyrolysis in bench scale and PDU flow systems. A series of coal pyrolysis tests were conducted in a 1 lb/hr bench scale reactor to obtain tar yield and characterization data as functions of pyrolysis conditions. Temperatures employed varied from 1000-1400°F and residence times of 1.5 and 3.0 seconds were used. Tar yield was found to be quite sensitive to both variables. The properties of oils and asphaltenes were found to be insensitive to temperature but varied significantly with residence times under the test conditions. Tar produced in the PDU was found to be quite similar to that produced in the bench scale reactor under similar reaction conditions.